

Claims:

1. A microscopic fluid controlling method comprising the steps of:

moving a first microscopic fluid by changing an electric field or a
5 magnetic field and by positioning said first microscopic fluid in a microscopic
flow passage;

inhaling a second microscopic fluid in said microscopic flow passage by
succeeding said first microscopic fluid; and

controlling said second microscopic fluid existed in said microscopic
10 flow passage in respective of a move of said first microscopic fluid.

2. A microscopic fluid controlling method comprising the steps of:

moving a first microscopic fluid by changing an electric field or a
magnetic field and by positioning said first microscopic fluid in a microscopic
15 flow passage;

inhaling a second microscopic fluid in said microscopic flow passage by
succeeding said first microscopic fluid;

dividing into plural said second microscopic fluid by a third microscopic
fluid; and

20 controlling said second microscopic fluid existed in said microscopic
flow passage in respective of a move of said first microscopic fluid.

3. A microscopic fluid controlling method comprising the steps of:

moving a first microscopic fluid by changing an electric field or a
25 magnetic field and by positioning said first microscopic fluid in a microscopic
flow passage;

inhaling a second microscopic fluid in said microscopic flow passage by

succeeding said first microscopic fluid;

dividing into plural said second microscopic fluid by heating; and

controlling said second microscopic fluid existed in said microscopic flow passage in respective of a move of said first microscopic fluid.

5

4. A microscopic fluid controlling method comprising the steps of:

moving a first microscopic fluid by changing an electric field or a magnetic field and by positioning said first microscopic fluid in a microscopic flow passage;

10 inhaling a second microscopic fluid at said microscopic flow passage by succeeding said first microscopic fluid; and

controlling said second microscopic fluid existed in said microscopic flow passage by blending and separating said second microscopic fluid according to a mass of said second microscopic fluid.

15

5. A microscopic fluid controlling method according to claim 1, wherein

by changing a magnetic force and an applied electric power, said first microscopic fluid is positioned and moved.

20 6. A microscopic fluid controlling method according to claim 2, wherein

by changing a magnetic force and an applied electric power, said first microscopic fluid is moved and said second microscopic fluid is divided into plural by said third microscopic fluid.

25 7. A microscopic fluid controlling method according to claim 3, wherein

by a heating portion, said second microscopic fluid is moved to said heating portion by said first microscopic fluid and by heating said second

microscopic fluid existed on said heating portion and said second microscopic fluid is separated.

8. A microscopic fluid controlling apparatus comprises:

5 a first microscopic fluid moving means for positioning and moving a first microscopic fluid in a microscopic flow passage;

a second microscopic fluid inhaling means for inhaling a second microscopic fluid in said microscopic flow passage by succeeding said first microscopic fluid; and

10 a controlling means for controlling said second microscopic fluid.

9. A microscopic fluid controlling apparatus comprises:

moving means for positioning and moving a first microscopic fluid in a microscopic flow passage;

15 inhaling means for inhaling a second microscopic fluid in said microscopic flow passage by succeeding said first microscopic fluid;

a second microscopic fluid dividing means for dividing into plural said second microscopic fluid; and

a controlling means for controlling said second microscopic fluid.

20

10. A microscopic fluid controlling apparatus comprises:

a first microscopic fluid moving means for positioning and moving a first microscopic fluid in a microscopic flow passage;

a second microscopic fluid inhaling means for inhaling a second
25 microscopic fluid in said microscopic flow passage by succeeding said first microscopic fluid;

a second microscopic fluid dividing means for dividing into plural said

second microscopic fluid;

a second microscopic fluid heating and diving means for heating said second microscopic fluid and dividing said second microscopic fluid; and
a controlling means for controlling said second microscopic fluid.

5

11. A microscopic fluid controlling apparatus comprises:

a rotating means for positioning a first microscopic fluid existed in a microscopic flow passage and moving said first microscopic fluid at said microscopic flow passage;

10

a second microscopic fluid inhaling means for inhaling a second microscopic fluid in said microscopic flow passage by succeeding said first microscopic fluid;

a second microscopic fluid inhaling means for inhaling a second microscopic fluid in said microscopic flow passage by succeeding said first microscopic fluid;

15

a second microscopic fluid dividing means for dividing into plural said second microscopic fluid;

a second microscopic fluid blending and separating means for blending and separating said second microscopic fluid.

20